

## APPENDIX A - PERMITTED ACTIVITY ASSESSMENT

Proposed Activity	Rule reference / description	Assessment
Chapter E7 Taking, using, damming and diversion of water and drilling		
Rule E7.4.1 (A17)	Dewatering or groundwater level control associated with a groundwater diversion permitted under the Unitary Plan	<p>The following assessment only relates to dewatering associated with permitted activities described below.</p> <p>E7.6.1.6. Dewatering or groundwater level control associated with a groundwater diversion permitted under Standard E7.6.1.10, all of the following must be met:</p> <ol style="list-style-type: none"> <li>1) The water take must not be geothermal water;</li> <li>2) The water take must not be for a period of more than 10 days where it occurs in peat soils, or 30 days in other types of soil or rock; and</li> <li>3) The water take must only occur during construction.</li> </ol> <p>The water take is not geothermal water, and will not occur within peat soils. Any water take will only occur during construction.</p> <p>The permitted dewatering associated with open-cut excavations, including activities exempt under E6.6.1.10 (1), include the following:</p> <ul style="list-style-type: none"> <li>• All connections from shafts and interception pipelines to existing EOPs (up to 10 days per connection);</li> <li>• Construction of pipeline between Interception Shaft SE04 and EOP 740 via open cut trenching (up to 5 days);</li> </ul>

		<ul style="list-style-type: none"> <li>• Construction of interception pipelines within the road corridors of Hamilton Road and Herne Bay Road via trenchless construction (exempt under E6.6.1.10 (1)); and</li> <li>• Service relocations (up to 10 days per location);</li> </ul> <p>As described below, the open cut trenching will be constructed in a progressive manner, such that short sections are open for up to 10 days, and will be subsequently be closed and stabilised.</p>
Rule E7.4.1 (A27)	Diversion of groundwater caused by any excavation (including trench) or tunnel	<p>E7.6.1.10. Diversion of groundwater caused by any excavation, (including trench) or tunnel:</p> <ol style="list-style-type: none"> <li>1) All of the following activities are exempt from the Standards E7.6.1.10(2) – (6): <ol style="list-style-type: none"> <li>a. pipes cables or tunnels including associated structures which are drilled or thrust and are up to 1.2m in external diameter;</li> <li>b. pipes including associated structures up to 1.5m in external diameter where a closed faced or earth pressure balanced machine is used;</li> <li>c. piles up to 1.5m in external diameter are exempt from these standards;</li> <li>d. diversions for no longer than 10 days; or</li> <li>e. diversions for network utilities and road network linear trenching activities that are progressively opened, closed and stabilised where the part of the trench that is open at any given time is no longer than 10 days</li> </ol> </li> </ol> <p>The trenchless installation of pipes which will be either drilled or thrust are exempt from as per (a), and include the trenchless</p>

		<p>interception pipelines in Hamilton Road (SE01 to EOP195) and Herne Bay Road (Shaft 4 to EOP197), which will require a tunnel with an external diameter being between 300mm and 450mm.</p> <p>The remaining open-cut trench sections described above will require short lengths of pipeline for EOP connections will be progressively opened, closed and stabilised, such that each section of trench is only open for up to 10 days, and are therefore exempt under (e).</p> <p>All other construction activities, including the construction of the interception shafts and EOP connections have been assessed as needing consent, and the corresponding effects in the Geotechnical Report + Groundwater Assessment (Rev 4, Dated 27 September 2023).</p>
<b>Chapter E25 Noise and Vibration</b>		
Rule E25.4.1 (A1)	Construction noise for work within the road.	<p>E25.6.29 (3) specifies the standard construction noise levels in the table below do not apply to unplanned repair or maintenance works or planned works in the road between the hours of 7am and 10pm where:</p> <p>(d) for planned works where the works will take more than 8 hours to complete a construction noise and vibration management plan is provided to the Council no less than five days prior to the works commencing in accordance with the applicable provisions of Standard E25.6.29(5).</p> <p>The works are planned and will take more than 8 hours to complete as stated in Section 4.4 of this application. A draft Construction Noise and Vibration Management Plan has been prepared and will be submitted to Auckland Council as part of the lodgement of the resource consent application. Therefore, the</p>

		works in the road are able to comply with this Permitted Activity standard.
Rule E25.4.1 (A1)	Construction vibration for work within the road	<p>Vibration from any construction, maintenance and demolition activities in the road must comply with the relevant vibration levels in the following relevant table or standard:</p> <p style="padding-left: 40px;">the limits set out in E25.6.30(1)(a) German Industrial Standard DIN 4150-3 (1999): Structural vibration – Part 3 Effects of vibration on structures.</p> <p>E25.6.29 (4A) specifies Table E25.6.30.1 Vibration limits in buildings do not apply to works within the road where:</p> <ul style="list-style-type: none"> <li>(a) for planned works, a copy of the works access permit issued by Auckland Transport or approval from the New Zealand Transport Agency is provided to the Council five days prior to work commencing; and</li> <li>(b) a construction noise and vibration management plan is provided to the Council no less than five days prior to the works commencing in accordance with the applicable provisions of Standard E25.6.29(5).</li> </ul> <p>As per the Construction Noise and Vibration Assessment, the works have been assessed and shown to comply with the relevant vibration standards of the AUP(OP). A draft Construction Noise and Vibration Management Plan has been prepared and will be submitted to Auckland Council as part of the lodgement of the resource consent application.</p>
<b>Chapter E26 – Infrastructure</b>		
Rule E26.2.3.1 (A49)	Underground pipelines and ancillary structures for the conveyance of wastewater (including above	The pipeline and chambers will all be permanently below ground. The only structure that will be at ground level and visible will be

	ground ancillary structures associated with underground pipelines) in all zones	manhole lids. Therefore, compliance is achieved with Permitted Activity Standard E26.2.5.3(24).
Rule E26.2.3.1 (A57)	Ventilation facilities, drop shafts and manholes	The manholes will be located in the Road, Residential and Open Space zones. The manholes can comply with the relevant standards under 26.2.5.1 and 26.2.5.2 for the respective zones.
Rule E26.4.3.1 (A83)	Tree trimming or alteration	Permitted works detailed in <b>Appendix G</b> – Arboricultural Assessment
Rule E26.4.3.1 (A87)	Works within the protected root zone	
Rule E26.4.3.1 (A91)	Tree alteration or removal of any tree less than 4m in height and/or less than 400mm in girth	Trees 50 and 54 (as per the Arborist Assessment) are to be removed and do not meet the 4m / 400mm protection threshold.
<b>Chapter E36 – Natural Hazards and Flooding</b>		
Rule E36.4.1 (A54)	Infrastructure within roads or the Strategic Transport Corridor Zone in the 1 per cent annual exceedance probability (AEP) floodplain and overland flow paths	<p>It is a permitted activity under the AUP (OP) to provide infrastructure in road sections that are subject to floodplains.</p> <p>There are no relevant Permitted Activity standards in the AUP(OP) under E36.6 that need to be complied with.</p>